FIG. 1A

(1:5, HEAVY CHAIN) [SEQ ID NO.: 1]

CDR1

VQLLEQSGA EVRKPGSSVK VSCKASGGTF SGHVITWVRQ APGQGLEWMG ESIPIEGSAN YAQNYAQKER DRVSIIADES TSTSFIELSN LRSDDTAVYY CARDPPRYCS AGRCYTGFEO QWGQGTLVTV SS

CDR2

CDR3

FIG. 1B

(1:7, HEAVY CHAIN) [SEQ ID NO.: 2]

CDR1

EVQLLEQSGA EVRKPGSSVK VSCQVFGDTF SRITIQWLRQ APGQGPEWMG NIIPVYNTPN YAQKEQGRLS ITADDSTSTA YMELSSLRSE DTAVYFCARV VIPNAIRHTM GYYEDLVWGQG TLVTVSS

CDR2

CDR3

FIG. 1C

(1:11, HEAVY CHAIN) [SEQ ID NO.: 3]

	CDR1		CDR2		CDR3	

EVQLLEQSGA EVKKPGSSVK VSCKASGGTF SGHYISWVRQ APGQGLEWMG GSISEFGTSN SAQKEQGRVS ITADESASTA YMELSSLRSE DTAIYYCAKD PPRECSGGNC YPGFEQQWGQ GTLVTVSS

FIG. 1D

(L3, HEAVY CHAIN) [SEQ ID NO.: 4]

	CDR1		CDR2		CDR3	

EVQLLESGGG VVQPGRSLRL SCAASGFTFK TYGMHWVRQA PGKGLEWVAG ISFDGSNQYY ADSYKGRFIV SRDNSRDTVF LQMSSLRLED TAVYYCATEG SPEGSIKGRY YLENWGQGTL VTVSS

FIGURE 1E (L1, HEAVY CHAIN) [SEQ ID NO.: 5]

CDR 1
VQLLESGGG VVQPGRSLRL SCAASGFTFS AYGMHWVRQA PGKGLEWVAG IWFDGSNQYYSDSVKGRFTV -

CDR 2

CDR 3
SRDNSRNTLF LQMNSLRPED TAVYYCATEV LFGSIKGRYY LENWGQGTLVTVSS

FIGURE 1F (A8, HEAVY CHAIN) [SEQ ID NO.: 6]

CDR 1
VQLLESGPG LVKPSGTLSL TCTVSGGSIR SSHWWSWVRQ PPGKGLEWIG EVFFSGSTIYNPSLNDRVFM ·

CDR 2

CDR 3
SVDKSKDQVS LRLSSVTAAD TAVYYCARSP IKMNQGRMML DAEDIWGQGTLVIVSS

FIGURE 1G (A12, HEAVY CHAIN) [SEQ ID NO.: 7]

CDR 1
VQLLESGSE VKKPGSSVKV SCRASGGGSFR SYNFNWVRQA PGQGLEWMGG IIPMFGTANYAQKFQGRVTI -

CDR 2

CDR 3
TADESTATGY MELSSLRSED TAVYYCAMPY PKHCSRGSCW GWFDPWGQGTLVTVSS

FIG. 2A

(1:5, HEAVY CHAIN)   [SEQ ID NO.: 8]

CDR1   CDR 2   CDR3

AELTQSPGTL SLSPGERATL SCRASQSVSS NYLAWYQQRP GQAPRLLIYG ASSRATGIPD RFSGSGSGTD FTLTISRLEP EDFAVYYCQQ LYGNSRWTFGQ GTKVEIK

FIG. 2B

(1:7, HEAVY CHAIN)   [SEQ ID NO.: 9]

CDR 1   CDR 2   CDR3

AELTQSPATL SLSPGERATL SCRASQSVNK YLAWYQQKPG QAPRLLIYDA SNRATGIPAR FSGSGSGTDF TLTISNLEPE DFAVYYCQQR SDWVTFGGGT KVEIK

FIG. 2C

(1:11, HEAVY CHAIN)   [SEQ ID NO.:10]

CDR1   CDR 2   CDR3

ELTQSPGTL SLSPGERATL SCGASQSVRS NYLAWYQQKP GQAPRLLIYG VSSRATGIPD RFSGSGSGTD FTLTISRLEP EDFAVYYCQQ YGSSPRTFGQ GTKLEIK

FIG. 2D

(L3, HEAVY CHAIN)   [SEQ ID NO.:11]

CDR 1   CDR 2   CDR3

AELTQSPATL SVSPGERASL SCRASQSVGN NLAWYQQKPG QAPRLLIYGG NTRAIGTPDR FSGSGSGTEF TLTISSLQSE DFAVYFCQHY STWPLTFGGG TKVEFK

FIGURE 2E (L1, LIGHT CHAIN)   [SEQ ID NO.: 12]

                    CDR 1   CDR 2
ELTQSPGTL SLSVGERATL SCRASQNIYS GYLGWYQQKP GQPPRLLIYG ASNRAIGIPD
                              CDR 3
- RFSGSGSGTD FTLTISRLES EDFAVYYCQQ YGSPPYIFGQ GTKVEIK

FIGURE 2F (A8, LIGHT CHAIN)   [SEQ ID NO.: 13]

                    CDR 1   CDR 2
ELTQSPSSL SAFVGDRVTI TCRASQSISR NLNWYQQKPG TAPKVLIYAA SSLQSGVPSR
                              CDR 3
- FSGSGSGTDF TLTITSLQPE DFATYYCQQS YTTPRIFGQG GTKVEVK

FIGURE 2G (A12, LIGHT CHAIN)   [SEQ ID NO.: 14]

                    CDR 1   CDR 2
ELTQSPGTL SLSPGERATL SCRASQSLSS KYLAWYQQKP GQAPRLFIYD ASSRAIGIPD
                              CDR 3
- RFSGSGSGTD FTLSISRLEP EDFAVYYCQQ YGTPRIFGQG TKVEIK

FIG. 3A

(1:5, HEAVY CHAIN) [SEQ ID NO.:15]

GAGCTCACGC AGTCTCCAGG CACCCTGTCT TTGTCTCCAG GGGAAAGAGC CACCCTCTCC TGCAGGGCCA
GTCAGAGTGT TAGCAGCAAT TACTTAGCCT GGTACCAGCA GAGACCTGGC CAGGCTCCCA GGCTCCTCAT
CTATGGTGCA TCCAGCAGGG CCACTGGCAT CCCAGACAGG TTCAGTGGCA GTGGGTCTGG GACAGACTTC
ACTCTCACCA TCAGCAGACT GGAGCCTGAA GATTTTGCAG TGTATTACTG TCAGCTTTAT GGTAACTCAC
GTTGGACGTT CGGCCAAGGG ACCAAGGTGG AGATCAAA

FIG. 3B

(1:7, HEAVY CHAIN) [SEQ ID NO.: 16]

GAGCTCACTC AGTCTCCAGC CACCCTGTCT TTGTCTCCAG GGGAAAGAGC CACCCTCTCC TGCAGGGCCA
GTCAGAGTGT TAACAGTAC TTAGCCTGGT ACCAACAGAA ACCTGGCCAG GCTCCCAGGC TCCTCATCTA
TGATGCATCC AACAGGGCCA CTGGCATCCC AGCCAGGTTC AGTGGCAGTG GGTCTGGGAC AGACTTCACT
CTCACCATCA GCAACCTAGA GCCTGAAGAT TTTGCAGTTT ATTACTGTCA GCAGGGTAGC GACTGGGTCA
CTTTCGGCGG AGGGACCAAG GTGGGAGATCA AA

FIG. 3C

(1:11, HEAVY CHAIN)   [SEQ ID NO.: 17]

GAGCTCACGC AGTCTCCAGG CACCCTGTCT TTGTCTCCAG GGGAAAGAGC CACCCTCTCC TGCGGGGCCA
GTCAGAGTGT TAGGAGCAAC TACTTAGCCT GGTACCAGCA AAAACCTGGC CAGGCTCCCA GGCTCCTCAT
CTATGGTGTA TCCAGCAGGG CCACTGGCAT CCCAGACAGG TTCAGTGGCA GTGGGTCTGG GACAGACTTC
ACTCTCACCA TCAGCAGACT GGAGCCTGAA GATTTTGCAG TGTATTACTG TCAGCAGTAT GGTAGCTCAC
CTCGGACTTT TGGCCAGGGG ACCAAGTTGG AGATCAAA

FIG. 3D

(L3, HEAVY CHAIN)   [SEQ ID NO.: 18]

GAGCTCACGC AGTCTCCAGC CACCCTGTCT GTGTCTCCAG GGGAAAGAGC CTCCCTCTCC TGCAGGGCCA
GTCAGAGTGT CGGTAACAAT TTAGCTTGGT ATCAGCAGAA ACCTGGCCAG GCTCCCAGGC TCCTCATTTA
TGGTGGAAAC ACCAGAGCCA CTGGTACCCC AGACAGGTTC AGTGGCAGTG GGTCTGGGAC AGAATTCACT
CTCACCATCA GCAGCCTGCA GTCTGAGGAC TTTGCAGTTT ATTTCTGTCA ACACTATAGT ACCTGGCCGC
TCACTTTCGG CGGGGGGACC AAGGTCGAGT TCAAG

FIGURE 3E (L1, LIGHT CHAIN)   [SEQ ID NO.: 19]

GAGGTGCAGC TGCTCGAGTC TGGGGGAGGC GTGGTCCAGC CTGGGAGGTC CCTGAGACTC TCCTGTGCAG
CGTCTGGATT CACCTTCAGT GCTTATGGCA TGCACTGGGT CCGCCAGGCT CCAGGCAAGG GGCTGGAGTG
GGTGGCAGGT ATATGGTTTG ATGGAAGTAA TCAATACTAT TCAGACTCCG TGAAGGGCCG ATTCACCGTC
TCCAGAGACA ATTCCAAGAA CACGCTGTTT CTGCAAATGA ACAGCCTGAG ACCGGAGGAC ACGGCTGTCT
ATTACTGTGC GACAGAGGTA CTTTTGGAT CGATTAAGGG GCGTTACTAC CTTGAAAACT GGGGCCAGGG
AACCCTGGTC ACCGTCTCCT CA

FIGURE 3F (A8, LIGHT CHAIN)   [SEQ ID NO.: 20]

GCGGAGCTCA CCCAGTCTCC ATCGTCCCTG TCTGCATTTG TNGGAGACAG AGTCACCATC ACTTGCCGGG
CAAGTCAGAG TATTAGCAGG AACTTAAATT GGTATCAGCA GAAACCAGGG ACAGCCCCTA AGGTCCTGAT
CTATGCTGCA TCCAGTTTGC AAGTGGGGT CCCATCGAGG TTCAGTGGCA GTGGATCTGG GACAGATTTC
ACTCTCACCA TCACCAGTCT GCAACCTGAA GATTTTGCAA CTTACTATTG TCAACAGAGT TACACAACCC
CTCGGGACGTT CGGCCAAGGG ACCAAGGTGG AAGTCAAA

FIGURE 3G (A12, LIGHT CHAIN)   [SEQ ID NO.: 21]

GCCGGAGCTCA CGCAGTCTCC AGGCACCCTG TCTTTGTCTC CAGGGGAAAG AGCCACCCTC TCCTGCAGGG
CCAGTCAGAG TCTTAGCAGC AAATACTTAG CNTGGTACCA ACAGAAAACCT GGCCAGGCTC CCAGGCTCTT
CATTTATGAT GCATCCAGCA GGGCCACTGG CATCCCAGAC AGGTTCAGTG GCAGTGGGTC TGGGACAGAC
TTCACTCTCA GCATCAGCAG ATTGGAGCCT GAAGATTTTG CAGTGTATTA CTGTCAGCAG TATGGAACAC
CTCGCACCTT CGGCCAGGGG ACCAAGGTGG AAATCAAA

FIG. 4A

(1:5, HEAVY CHAIN)   [SEQ ID NO.: 22]

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CTCGAGCAGT CTGGGGGCTGA GGTGAGGAAG CCTGGGGTCCT CGGTGAAGGT CTCCTGCAAG GCTTCTGGAG
GCACCTTCAG CGGCCATGTT ATCACCTGGG TGCGACAGGC CCCTGGACAA GGACTTGAGT GGATGGGAGA
GAGCATCCCT ATCTTTGGTT CCGCAAACTA CGCTCAAAAC TACGCTCAGA AATTCCGGGA CAGAGTCTCG
ATTATCGGGG ACGAATCCAC GAGCACGTCG TTCATTGAGC TGAGCAACCT GAGATCTGAC GACACGGCCG
TCTACTACTG TGCGGAGAGAC CCTCCAAGAT ATTGCAGTGC TGGTAGATGC TACCCGGGAT TCTTCCAGCA
GTGGGGGCCAG GGCACCCTCG TCACCGTCTC CTCA
```

FIG. 4B

(1:7, HEAVY CHAIN)   [SEQ ID NO.: 23]

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CTCGAGCAGT CTGGGGGCTGA GGTGAAGAAG CCTGGGGTCCT CGGTGAAGGT CTCCTGTCAG GTTTTTGGAG
ACACTTCAG CAGATACACT ATTCAGTGGT TGCGACAGGC CCCTGGACAA GGGCCTGAGT GGATGGGAAA
TATCATCCCT GTCTATAATA CACCAAACTA CGCGCAGAAG TTTCAGGGCA GACTCTCGAT AACCGCCGAC
GATTCCACGA GCACAGCCTA CATGGAACTG AGTAGCCTCA GATCTGAGGA CACGGCCGTC TATTCTGTG
CGAGAGTCGT AATACCAAAT GCAATCCGGC ACACGATGGG ATATTACTTT GACTACTGGG GCCAGGGAAC
CCTGGTCACC GTCTCCTCA
```

FIG. 4C

(1:11, HEAVY CHAIN)   [SEQ ID NO.: 24]

CTCGAGCAGT CTGGGGCTGA GGTGAAGAAG CCTGGGTCCT CAGTGAAGGT CTCCTGCAAG GCTTCTGGAG
GCACCTTCAG CGGCCATGTT ATCAGCTGGG TGCGACAGGC CCCTGGACAA GGGCTTGAGT GGATGGGGGG
GAGTATCTCT TTCTTTGGCA CATCAAACTC CGCACAGAAG TTCCAGGGCA GAGTCTCGAT TACCGGCGAC
GAATCCGCGA GCACAGCCTA CATGGAGCTG AGTAGCCTGA GATCGGAGGA CACGGCCATC TATTACTGTG
CGAAAGACCC TCCAAGATTT GTGTAGTGGTG GTAACTGCTA CCCGGGGGTTC TTCCAGCAGT GGGGCCAGGG
CACCCTGGTC ACCGTCTCCT CA

FIG. 4D

(L3, HEAVY CHAIN)   [SEQ ID NO.: 25]

CTCGAGTCGG GGGGAGGCGT GGTCCAGCCT GGGAGGTCCC TGAGACTCTC CTGTGCAGCG TCTGGAATTCA
CCTTCAAGAC GTATGGCATG CACTGGGTCC GCCAGGCTCC AGGCAAGGGG CTGGAGTGGG TGGCAGGTAT
TTCGTTTGAT GGAAGTAACC AATATTACGC AGACTCCGTG AAGGGCCGAT TCATCGTCTC CAGAGACAAT
TCCAGGGACA CGGTGTTTCT GCAGATGAGC AGCCTGAGAC TCGAGGACAC GGCTGTCTAT TACTGTGCGA
CAGAGGGTTC TCCTTTTGGC TCGATTAAGG GCGGTTACTA CCTTGAAAAT TGGGGCCAGG GAACCCTGGT
CACCGTCTCC TCA

FIGURE 4E (L1, HEAVY CHAIN)   [SEQ ID NO.: 19]

GAGGTGCAGC TGCTCGAGTC TGGGGGAGGC GTGGTCCAGC CTGGGAGGTC CCTGAGACTc rCCTGTGTCAG
CGTCTGGATT CACCTTCAGT GCTTATGGCA TGCACTGGGT CCGCCAGGCT CCAGGCAAGG GGCTGGAGTG
GGTGGCAGGT ATATGGTTTG ATGGAAGTAA TCAATACTAT TCAGACTCCG TGAAGGGCCG ATTCACCGTC
TCCAGAGACA ATTCCAGGAA CACGCTGTTT CTGCAAATGA ACAGCCTGAG ACCCGAGGAC ACGGCTGTCT
ATTACTGTGC GACAGAGGTA CTTTTGGAT CGATTAAGGG GCGTTACTAC CTTGAAAACT GGGGCCAGGG
AACCCTGGTC ACCGTCTCCT CA

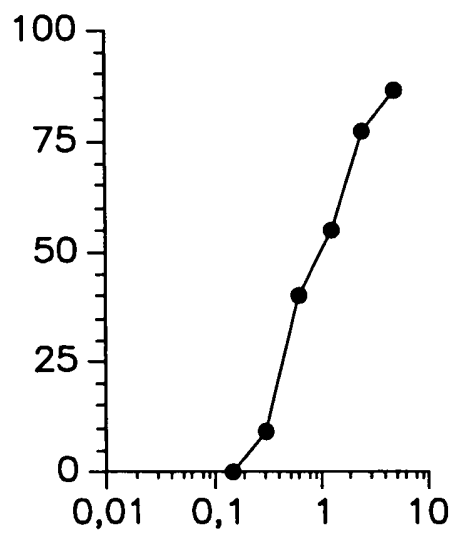FIGURE 4F (A8, HEAVY CHAIN)   [SEQ ID NO.: 26]

GAGGTGCAGC TGCTCGAGTC GGGCCCAGGA CTGGTGAAGC CTTCGGGGAC CCTGTCCCTC ACCTGCACTG
TCTCTGGTGG CTCCATCAGG AGCAGTCACT GGTGGAGTTG GGTCCGCCAG CCCCAGGGA AGGGACTGGA
GTGGATTGGA GAAGTCTTTT TTAGTGGAAG CACCATCTAC AACCATCCC TCAACGATCG AGTCTTCATG
TCTGTAGACA AGTCCAAGGA CCAGGTCTCC CTGAGGCTGA GCTCTGTGAC CGCCGCGGAC ACGGCCGTGT
ATTACTGTGC GAGATCCCCC ATAAAAATGA ATCAGGGAAG AATGATGTTG GATGCCTTTG ATATCTGGGG
CCAGGGGACA CTCGTCATCG TCTCTTCC
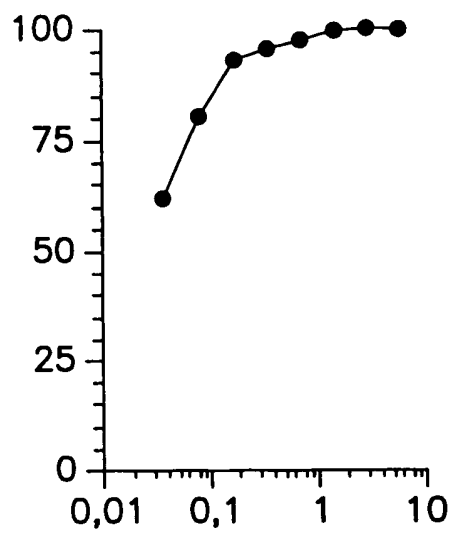
FIGURE 4G (A12, HEAVY CHAIN)   [SEQ ID NO.: 27]

GAGGTGCAGC TGCTCGAGTC TGGGTCTGAG GTGAAGAAGC CTGGGTCTTC GGTGAAGGTC TCCTGCAGGG
CCTCTGGAGG CAGCTTCAGA AGCTTCACAA TTCAATTGGGT GCGACAGGCC CCTGGACAAG GTCTTGAGTG
GATGGGAGGC ATCATCCCTA TGTTCGGAAC AGCAAACTAC GCACAGAAGT TTCAGGGCAG AGTCACAATT
ACCGCGGACG AATCCACGGC CACAGGCTAC ATGGAGTTGA GCAGTCTGAG ATCTGAAGAC ACGGCCGTTT
ATTACTGTGC GATGCCCTAT CCAAAACATT GCAGTCGTGG AAGTTGCTGG GGCTGGTTCG ACCCCTGGGG
CCAGGGAACT CTGGTCACCG TGTCTTCA

FIG. 5

Monovalent Fab [g/ml]

L3

1:5

1:7

1:11